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(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL];**
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **RAAYMAKERS, Jeroen, A., L., J. [NL/NL];** c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: **DEGUELLE, Wilhelmus, H., G.;** Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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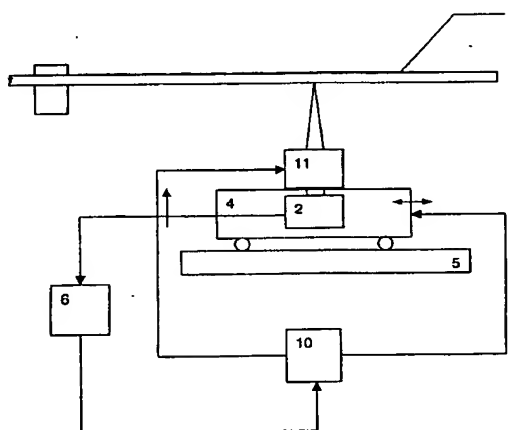
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(54) Title: **METHOD AND DEVICE FOR PERFORMING TILT CORRECTION USING MULTI-DIMENSIONAL ACTUATOR**



(57) Abstract: The present invention relates to method and device for performing tilt control. A focus and a tilt controlling output is generated, and a focusing and tilt state of an optical recording/reproducing beam is controlled by determining a radial tilt value based on a differentiation of focus control values obtained at different radii of said optical disk (1). The combination of e.g. a 3D actuator with the dz/dr tilt measurement provides the advantage that focus and tilt adjustment can be performed in the same element. Thereby, influences or measurement variations caused by environmental conditions and/or circuit characteristics can be minimized to reduce compensations requirements. Furthermore, a 3D actuator (11) with a split coil arrangement may be used to provide a three-dimensional focus adjustment. Thereby, the 3D actuator (11) can be used for feed forward tilt compensation without offset or gain errors and without any additional sensor.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2001/021164 A1 (FUJII HITOSHI ET AL) 13 September 2001 (2001-09-13) abstract	1-4,8-10 5-7, 11-13
Y A	US 5 627 808 A (HAJJAR ROGER A ET AL) 6 May 1997 (1997-05-06) column 3, line 45 -column 4, line 4; figure 3	1-4,8-10 5-7, 11-13

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☒ Patent-family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2001021164	A1	13-09-2001	CN 1335598 A JP 2001331956 A	13-02-2002 30-11-2001
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